

# **Solution Approach of Linear Equations without Fractional Systems by Using Modification Method Gauss – Jordan for 3 Variables and 3 Equations**

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## **Abstract**

Based on Linear Algebra teaching experience and Numerical Method Analysis five years back, students have difficulty in solving linear equation system by using the Gauss-Jordan method when they are met with fractions. The modification of the Gauss-Jordan method in its completion can avoid fractions, although the end result can be in the form of fractions. The modification of the Gauss-Jordan method integrates two rules into new  $i$  th -row equal to  $k_1$  times the old  $i$  th – row minus by  $k_2$  times the row  $j$  th (where  $i \neq j$ ).

**Keywords:** *linear algebra, Gauss – Jordan Method*